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6.15. Berkeley DB-4.7.25 Linux From Scratch - Version 6.4 Chapter 6. Installing Basic System Software Prev GCC-4.3.2 Next Sed-4.1.5 Up Home

6.15. Berkeley DB-4.7.25 The Berkeley DB package contains programs and utilities used by many other applications for database related functions. Approximate build time: 1.9 SBU Required disk space: 120 MB Other Installation Possibilities There are instructions to build this package in the BLFS book if you need to build the RPC server or additional language bindings. The additional language bindings will require additional packages to be installed. See <http://www.linuxfromscratch.org/blfs/view/svn/g> for suggested installation instructions. Also, GDBM could be used in place of Berkeley DB to satisfy Man-DB. However, since Berkeley DB is considered a core part of the LFS build, it will not be listed as a dependency for any package in the BLFS book. Likewise, many hours go into testing LFS with Berkeley DB installed, not with GDBM. If you fully understand the risks versus benefits of using GDBM and wish to use it anyway, see the BLFS instructions located at <http://www.linuxfromscratch.org/blfs/view/svn/g>

6.15.1. Installation of Berkeley DB Apply an upstream patch so that replication clients can open a sequence: `patch -Np1 -i ../db-4.7.25-upstream_fixes-1.patch` Prepare Berkeley DB for compilation: `cd build_unix ../dist/configure --prefix=/usr --enable-compat185 --enable-cxx` The meaning of the configure options: `--enable-compat185` This option enables building Berkeley DB 1.85 compatibility API. `--enable-cxx` This option enables building C++ API libraries. Compile the package: `make` It is not possible to test the package meaningfully, because that would involve building TCL bindings. TCL bindings cannot be built properly now because TCL is linked against Glibc in /tools, not against Glibc in /usr. Install the package: `make docdir=/usr/share/doc/db-4.7.25 install` The meaning of the make parameter: `docdir=...` This variable specifies the correct place for the documentation. Fix the ownership of the installed documentation: `chown -Rv root:root /usr/share/doc/db-4.7.25`

6.15.2. Contents of Berkeley DB Installed programs: `db_archive`, `db_checkpoint`, `db_deadlock`, `db_dump`, `db_hotbackup`, `db_load`, `db_printlog`, `db_recover`, `db_stat`, `db_upgrade`, and `db_verify` Installed libraries: `libdb.{so,ar}` and `libdb_cxx.r{o,ar}` Short Descriptions `db_archive` Prints the pathnames of log files that are no longer in use `db_checkpoint` A daemon used to monitor and checkpoint database logs `db_deadlock` A daemon used to abort lock requests when deadlocks are detected `db_dump` Converts database files to a plain-text file format readable by `db_load` `db_hotbackup` Creates “hot backup” or “hot failover” snapshots of Berkeley DB databases `db_load` Is used to create database files from plain-text files `db_printlog` Converts database log files to human readable text `db_recover` Is used to restore a database to a consistent state after a failure `db_stat` Displays statistics for Berkeley databases `db_upgrade` Is used to upgrade database files to a newer version of Berkeley DB `db_verify` Is used to run consistency checks on database files `libdb.{so,a}` Contains functions to manipulate database files from C programs `libdb_cxx.{so,a}` Contains functions to manipulate database files from C++ programs Prev GCC-4.3.2 Next Sed-4.1.5 Up Home

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